



**International Council
for Research and Innovation
in Building and Construction**



**Sustainable
Built Environment**
National Research Centre

Curtin University

CIB TG90: Information Integration in Construction (IICON)

Outcomes of WebEx 3 - Thursday, 07 May 2015 (3.00 pm Perth, Australia time)

Attendees: Amor, Robert; Claeson-Jonsson, Christina; Forman, Marianne; Haugbølle, Kim; Lupica Spagnolo, Sonia; Meistad, Torill; Sanchez, Adriana (Coordinator); Støre-Valen, Marit; Rempling, Rasmus (Coordinator); Utiome, Ezezi and Jun, Youngsoo.

TG90

Presentation: Adriana, Rasmus and Youngsoo - Proposed Book Framework

- A framework was proposed to guide the book structure and content. The chapters would be organised according to a modified version of the Christensen Capabilities Framework which contains three categories: Resources, Processes and Values. This framework was originally developed for innovation in industry. The book will have an introductory chapter presenting the group and the framework, then have three sections with the rest of the chapters, and close with a concluding chapter that draws from the three previous section to outlines trends and future research needs.
- The resources section will include chapters that related to the need for integration of information for allocation, management and optimisation or resources. These can be human, environmental or economic. The process section will include chapters that relate to processes involved in the vertical (across the decision-making chain) and horizontal (across supply chain stakeholders) integration of information in construction. Finally, the values section will include cultural and less tangible elements associated to information integration in construction such as knowledge, leadership and learning.
- Adriana sent the list of abstracts received. These were organised according to the above categories. Authors were asked to check where their chapters were placed and contact Adriana if they think that they should fall under a different category.
- A suggested chapter structure was presented. Adriana stressed that although not every chapter will be able to follow the same exact structure this can serve as an initial guide when developing the content. The one section that the editors do want every chapter to have is the priority areas/ action plans/ what next section. This section will include the key message for the reader and implications of the chapter for them and decision-makers. This section should answer the question: what should the reader do with the information you have provided? This section and the concluding remarks are likely to be used to develop the roadmap.
- The framework also includes a series of aspects that should be considered while writing the chapter in terms of the implications for the reader. These aspects are most relevant to the last two sections but should be considered throughout. The first set is formed by four levels. Rasmus asked that at least in the concluding section authors consider these four levels and highlight either where their recommendations/topic belongs and/or where there is need for more research across those four levels. These are based on a business model developed by Rasmus' team. The strategic level is about the impact and purpose of the change. The tactical level is about the relationship of information between team boundaries. The operational level is about practical implications of the integration of information. Finally, the technical level is about the technical aspects of integration. Rasmus will make the paper that explains these levels in detail available to the group once it has been accepted for publication.

- Adriana suggested that even if a chapter is for example focused on the technical level, the authors should consider the implications and relationships to the other three levels.
- Youngsoo explained that in order to attract leaders and decision-makers as readers, push-pull considerations throughout the chapters would be useful. He suggested that two issues should be considered: 1) technology measures, and 2) practical benefit measures. This is very much in line with Rasmus' four levels of implications and authors are encouraged to think about these implications while writing their chapters.

Discussion

- The group agreed with the overall framework.
- Marit suggested that the third category should be renamed added value. Adriana agreed with the change and will contact some of the authors to change the title of their chapters to be more in line with the category name.
- Erezi asked whether there may be a potential issues with chapters having internal frameworks that do not align with the book framework. Adriana explain that it would depend on the message that the authors want to convey but in principle the framework to analyse the topic of the chapter can be independent from the general framework. However, the editors would encourage all authors to follow the implications for the reader part of the book framework in order to provide consistency across all chapters.
- Adriana suggested that now that the framework has been explained some authors may want to revise their abstract. If this is so, please do not hesitate to contact her before the next WebEx.
- Sonia highlighted that some of the chapters may cover the same topics and asked how this should be handled. Adriana explained that each chapter should be developed as standalone but the editors will make sure that information is not repeated and organise the chapters in a way that they tell a clear story to the reader. The editors may also put authors who are covering the same topics in contact so they can be aware of what each group is focusing on.

CIB World Building Congress, Tampere, Finland, May 2016

- Information about the congress was distributed to all members before the meeting. This congress will take place in Finland in May 2016 and the abstracts are due on 15 June 2015. All members are encouraged to submit abstracts. It was suggested that they can use the same abstract sent for the chapter and take an incremental writing approach. The conference paper can give the authors an opportunity for early feedback from the academic community on their topic and main approach. Conference papers are usually about half the length of a chapter.
- If enough papers are submitted and accepted, the group could have a session of its own. Adriana asked all members who are submitting abstracts to please let her know so they can have an idea of potential numbers and start organising the session. Additionally, it was suggested that a social gathering and face-to-face meeting could be organised after the session for members to meet in that context. Members who are attending the congress were also asked to let Adriana know so this social gathering can be organised.
- The CIB is requesting each Task Group to provide at least three reviewers. Marit, Sonia, Erezi and Adriana volunteered. Any other members who wants to volunteer as reviewers were encouraged to do so and contact Adriana so she can forward this information to Wim.
- It was also proposed that the group may organise a discussion round table around the topic of information integration as part of the TG session at the congress. Adriana has already been in contact with the WBC16 organisers to reserve a room and will provide more information to the group as it becomes available.

Research roadmap

- This will be the last publication by the group and highly based on the book. This is why authors are encouraged to address the four levels presented by Rasmus as this pyramid would guide the development of the roadmap. The approach to the roadmap may be part of the discussions of the round table at the TG session during the WBC16.

FOLLOW-UP ACTIONS

- **Monday 15 June 2015:** CIB WBC16 [abstract submission deadline](#).
- **Monday 26 October 2015:** Members to send Adriana their chapter outlines (~1,000 words). These should provide a clear idea of the expected structure of the chapter, key messages and content as well as the type of information that will be included. This information will help the editors ensure that all chapters complement each other and identify any gaps in the book that should be filled by extra chapters.

NEXT MEETING

- Tuesday, 01 September 2016 at 2.00 PM AWST/8.00 AM CEST.